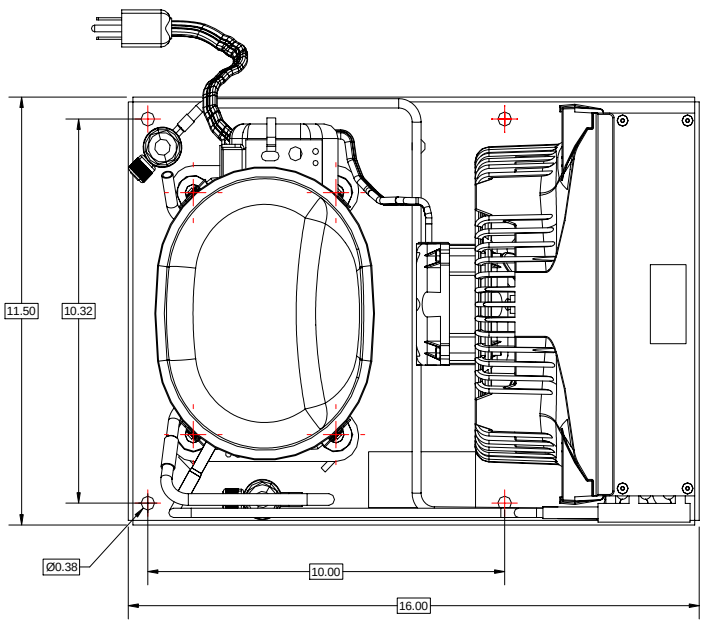
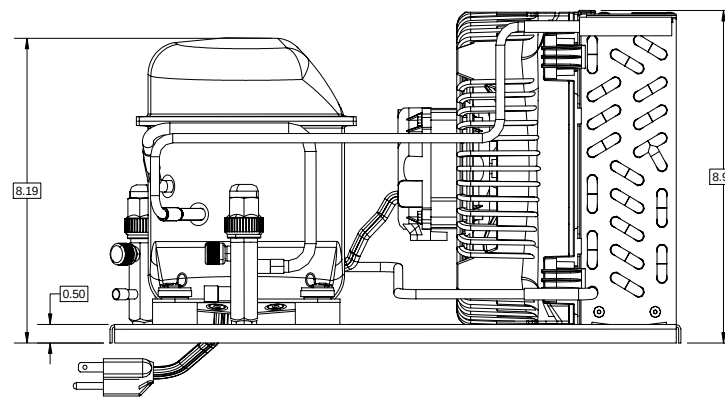
# CELSEON® LOW PROFILE CONDENSING UNIT

| | |
|---|---|
| **Model** | **AEA3414AXASK, -SS** |
| **BOM** | **32G658-39S, -69S** |
| **Air Cooled** | **1/6 HP** |
| **Application** | **High Temp** |
| **Refrigerant** | **R12** |
| **Volts-Hz-Ph** | **115-60-1** |




| | Dimensions, inches (mm) | | | Line Connections | | Pumpdown | AirFlow | Oil Ch. | Gross weight |
|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | Suction | Liquid | 90% @90°F | CFM | Oz. | Lbs (kg) |
| AEA3414AXASK | 16 (406) | 11.5 (292) | 8.9 (226) | 5/16" Sweat | 1/4" Sweat | n/a | 190 | 10 | 40.6 (18.4) |
| AEA3414AXASS | | | | 3/8 Valve Sweat | 1/4 Valve Sweat | | | | 41.4 (18.8) |

Factory charge 20 PSIG dry air, **MUST BE EVACUATED**

| Evaporator | | Ambient Temps | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 80°F | | | | 90°F | | | | 100°F | | | | 110°F | | | |
| T, °F | PSIG | BTUH | Watts | Head | Cond T | BTUH | Watts | Head | Cond T | BTUH | Watts | Head | Cond T | BTUH | Watts | Head | Cond T |
| 10 | 14.8 | 960 | 160 | 112 | 97 | 880 | 160 | 127 | 105 | 830 | 150 | 142 | 113 | 760 | 140 | 164 | 123 |
| 15 | 17.9 | 1040 | 180 | 115 | 99 | 980 | 180 | 127 | 105 | 920 | 180 | 144 | 114 | 850 | 170 | 165 | 123 |
| 20 | 21.2 | 1120 | 190 | 120 | 101 | 1090 | 200 | 128 | 106 | 1010 | 200 | 146 | 115 | 950 | 200 | 167 | 124 |
| 25 | 24.8 | 1220 | 210 | 124 | 104 | 1190 | 210 | 130 | 107 | 1110 | 210 | 148 | 116 | 1060 | 220 | 169 | 125 |
| 30 | 28.6 | 1320 | 220 | 129 | 107 | 1300 | 220 | 132 | 108 | 1220 | 230 | 151 | 117 | 1170 | 240 | 172 | 126 |
| 35 | 32.7 | 1420 | 230 | 135 | 109 | 1420 | 230 | 135 | 109 | 1340 | 240 | 155 | 119 | 1280 | 260 | 175 | 128 |
| 40 | 37.1 | 1530 | 240 | 141 | 112 | 1540 | 240 | 138 | 111 | 1470 | 260 | 159 | 121 | 1400 | 270 | 179 | 129 |
| 45 | 41.8 | 1650 | 240 | 147 | 115 | **1670** | **250** | **142** | **113** | 1600 | 260 | 164 | 123 | 1530 | 280 | 183 | 131 |
| 50 | 46.8 | 1770 | 250 | 154 | 118 | 1800 | 250 | 146 | 115 | 1740 | 270 | 170 | 125 | 1670 | 290 | 188 | 133 |
| 55 | 52.1 | 1890 | 250 | 161 | 122 | 1930 | 250 | 151 | 117 | 1890 | 270 | 176 | 128 | 1810 | 300 | 194 | 135 |

Performance @ 60 Hz, Return gas 65°F, SubCooling 5°F

## Parts/Specifications

| | | | |
|---|---|---|---|
| **Unit BOM** | **32G658-39S** | Condenser | 506-G333 |
| **Unit MODEL** | **AEA3414AXASK** | Fan Guard | 116-002P |
| | | Condenser, Fan Guard Kit | K135-01 |
| Refrigerant | R12 | Power Cord | 85106-10 |
| Refrigeration RANGE | 20°F to 55°F | | |
| Design Pressure Low | 150 | Fan Motor | NUT6B06ZUN301 |
| Design Pressure High | 350 | Fan Motor RLA | 0.41 |
| Volts - HZ - Ph | 115V ~ 60HZ | Fan Blade | 4VEA009 |
| Voltage Range | 103.5 - 126.5 | Replacement Fan Motor | 6W115 |
| Min. Circuit Ampacity | 4.04 | Fan Motor, Blade, Guard assy | GFBG-106 |
| Max. Fuse Size | 15 | | |
| | | | |
| Compressor MODEL | AEA3414AXA | | |
| Compressor BOM | AE121AS-048-A2HD | | |
| Compressor LRA | 18 | **Unit BOM** | |
| Compressor RLA | 2.9 | **Unit MODEL** | |
| | | Liquid Receiver | |
| OverLoad | 83601 | | |
| Replacement Kit - O/L | K90-07 | **Unit BOM** | |
| Relay | 82411 | **Unit MODEL** | |
| Replacement Kit - Relay | K71-05 | Liquid Receiver | |
| Run Capacitor | | Liquid Valve | |
| Run Capacitor Rating | | Suction Valve | |
| Start Capacitor | | | |
| Start Capacitor Rating | | **Unit BOM** | **32G658-69S** |
| | | **Unit MODEL** | **AEA3414AXASS** |
| Unit drawing DGU | DGU1896-G406 | Liquid Valve | 56605 |
| Electrical Diagram | DEAE-1 | Suction Valve | 56604 |